

THE ANNALS

AND

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[SEVENTH SERIES.]

“..... per litora spargite muscum,
Naiades, et circum vitreos considite fontes:
Pollice virgineo teneros hic carpite flores:
Floribus et pictum, divæ, replete canistrum.
At vos, o Nymphæ Craterides, ite sub undas;
Ite, recurvato variata corallia trunco
Vellite muscosis e rupibus, et mihi conchas
Perte, Deæ pelagi, et pingui conchyliæ succo.
N. Parthenii Giannettusi, Eel.

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I.—*Diagnoses of new Fishes discovered by Mr. J. E. S. Moore in Lakes Tanganyika and Kivu.* By G. A. BOULENGER, F.R.S.

II. Cichlidæ, Mastacembelidæ.

Paratilapia vittata.

D. XV-XVI 8-9. A. III 8-9. Sq. 33-35 $\frac{4}{11-12}$.

L. lat. 20-21/10-13.

Depth of body $3\frac{1}{3}$ to $3\frac{1}{2}$ times in total length, length of head $2\frac{2}{3}$ to 3 times. Diameter of eye 4 to $4\frac{3}{4}$ times in length of head; maxillary extending to below anterior border of eye; 3 or 4 series of teeth; 3 or 4 series of scales on the cheek. 10-12 gill-rakers on lower part of anterior arch. Pectoral much shorter than the head. Caudal feebly notched. Two blackish stripes along each side of the body.

Total length 120 millim.

Several specimens from Kivu.

*Paratilapia aurita.*D. XV-XVII 9-10. A. III 8. Sq. 35-36 $\frac{3-4}{9-10}$.

L. lat. 22-25/14-18.

Depth of body 3 to $3\frac{1}{4}$ times in total length, length of head $3\frac{1}{4}$ to $3\frac{1}{2}$. Diameter of eye $3\frac{1}{4}$ to $3\frac{3}{4}$ times in length of head; maxillary extending to below anterior fourth or anterior third of eye; 2 or 3 series of teeth; 4 or 5 series of scales on the cheek. 10 or 11 gill-rakers on lower part of anterior arch. Pectoral as long as head. Caudal feebly notched. A very distinct blue-black opercular spot.

Total length 130 millim.

Several specimens from Msambu, Tanganyika.

*Paratilapia calliura.*D. XVI-XVII 10. A. III. 7-8. Sq. 37-40 $\frac{2-3}{9-10}$.

L. lat. 25-29/13-17.

Depth of body 4 to $4\frac{1}{2}$ times in total length, length of head 3 to $3\frac{1}{3}$. Snout pointed; diameter of eye 3 to $3\frac{1}{3}$ times in length of head; maxillary extending to below anterior fourth of eye; 2 series of teeth; 2 or 3 series of scales on the cheek. 15 gill-rakers on lower part of anterior arch. Pectoral a little shorter than the head. Caudal feebly notched. Dorsal and anal edged with black; 4 or 5 black bars across the caudal.

Total length 110 millim.

Several specimens from Kalambo, Tanganyika.

*Paratilapia stenosoma.*D. XV 13. A. III 12-13. Sq. 60-68 $\frac{6}{16}$.

L. lat. 54-58/31-34.

Body very strongly compressed, its depth nearly equal to length of head and $2\frac{3}{4}$ to 3 times in total length. Diameter of eye $3\frac{1}{3}$ to $3\frac{1}{2}$ in length of head; maxillary not extending to below anterior border of eye; 2 or 3 series of teeth; 2 series of scales on the cheek. 19-23 gill-rakers on lower part of anterior area. Pectoral a little shorter than the head. Caudal deeply notched. Dorsal fin blackish at the edge.

Total length 220 millim.

Three specimens from the south end of Lake Tanganyika and from Maswa, south of Ujiji.

*Paratilapia nigripinnis.*D. XV-XVII 11. A. III 8-9. Sq. 39-40 $\frac{3}{11}$.

L. lat. 29-30/13-16.

General proportions and essential characters as in *P. leptosoma*, Blgr., but easily distinguished by the number of spines and soft rays in the dorsal and of soft rays in the anal. Dark brown, lighter beneath; fins blackish, caudal edged with white.

Total length 80 millim.

Two specimens from Msambu, Tanganyika.

*Bathybates fasciatus.*D. XVI 16. A. III 17. Sq. 140 $\frac{11}{25}$. L. lat. 75/45.

Depth of body $4\frac{1}{2}$ times in total length, length of head $3\frac{1}{2}$. Diameter of eye twice in length of snout, 5 times in length of head, $1\frac{1}{2}$ times in interocular width. 18 gill-rakers on lower part of anterior arch. A series of large round blackish blotches above the upper lateral line, alternating with vertical blotches or cross-bars below.

Total length 340 millim.

A single specimen from the west coast of Lake Tanganyika.

*Xenotilapia ornatipinnis.*D. XIII-XV 12-13. A. III 7-8. Sq. 34-37 $\frac{3}{10}$.

L. lat. 28-32/13-18/4-12.

Body less elongate than in *X. sima*, Blgr., its depth nearly equal to length of head and $3\frac{1}{3}$ to $3\frac{1}{2}$ times in total length. Large blackish spots or oblique bars on the dorsal; upper lobe of caudal with a blackish edge; a blackish chevron-shaped band lower down on the caudal.

Total length 110 millim.

Several specimens from Kibwesi, Tanganyika.

*Trematocara unimaculatum.*D. X-XII 9-11. A. III 7-8. Sq. 30-32 $\frac{3}{7}$. L. lat. 5-14.

17 gill-rakers on lower part of anterior arch. Dorsal spines longer than in *T. marginatum*. A large round black spot on the posterior third of the spinous dorsal.

Total length 120 millim.

Several specimens from Usambura, Tanganyika.

GEPHYROCHROMIS, gen. nov.

A band of very small tricuspid teeth in both jaws and an outer series of larger conical teeth. Anal spines 3.

Differs from *Paratilapia* as *Telmatochromis* from *Lamprologus*.

Gephyrochromis Moorii.

D. XVII 8. A. III 7. Sq. $30 \frac{3}{11}$. L. lat. 22/13.

Depth of body equal to length of head, 3 times in total length. Diameter of eye $3 \frac{1}{3}$ times in length of head; 3 series of scales on the cheek. 13 gill-rakers on lower part of anterior arch. Caudal rounded.

Total length 120 millim.

A single specimen from the north end of Lake Tanganyika.

Tilapia pleurotenia.

D. XV-XVIII 11-12. A. III 8-10. Sq. 32-35 $\frac{4}{11-12}$.
L. lat. 22-24/10-15.

Depth of body $2 \frac{1}{2}$ to 3 times in total length, length of head 3 to $3 \frac{1}{2}$. Diameter of eye 3 to $3 \frac{1}{2}$ times in length of head; mouth extending to below nostril or between nostril and eye; 3 series of teeth; 3 or 4 series of scales on the cheek. 10-12 gill-rakers on lower part of anterior arch. Pectoral a little shorter than head. Caudal deeply notched. A blackish lateral stripe.

Total length 110 millim.

Several specimens from the north end of Lake Tanganyika and from the Usisi River.

Tilapia trematocephala.

D. XVI 11. A. III 9. Sq. $40 \frac{3}{10}$. L. lat. 28/?.

Depth of body equal to length of head, $3 \frac{1}{4}$ times in total length. Sensory organs on the head with very wide openings; diameter of eye 3 times in length of head; mouth extending to between nostril and eye; 2 series of teeth; 3 series of scales on the cheek. 13 gill-rakers on lower part of anterior arch. Pectoral $\frac{3}{4}$ length of head. Caudal deeply notched. Ventral and anal black, latter edged with white.

Total length 90 millim.

A single specimen from the north end of Lake Tanganyika.

*Tilapia boops.*D. XII-XIII 14. A. III 8-9. Sq. 39-40 $\frac{5}{14-15}$.

L. lat. 34-35/15-19.

Depth of body equal to length of head, $3\frac{1}{4}$ to $3\frac{1}{3}$ times in total length. Diameter of eye $2\frac{1}{2}$ in length of head; mouth not extending quite to below anterior border of eye; 3 series of teeth; 2 or 3 series of scales on the cheek. 13 gill-rakers on lower part of anterior arch. Pectoral as long as head. Caudal deeply notched.

Total length 90 millim.

Two specimens from Msambu, Tanganyika.

ASPROTILAPIA, gen. nov.

Teeth small, tricuspid, closely set, in two series. Mouth inferior, transverse. Body elongate, much attenuate in the caudal region. Scales ctenoid; two lateral lines. Anal with 3 spines.

Allied to *Tilapia*.*Asprotilapia leptura.*D. XIV 12. A. III 8. Sq. 38 $\frac{2}{11}$. L. lat. 27/20.

Body rather feebly compressed, its depth 5 times in total length. Snout subconical, projecting strongly beyond the mouth; diameter of eye $2\frac{3}{5}$ times in length of head; 3 series of scales on the cheek. Caudal deeply notched. Caudal peduncle 3 times as long as deep.

Total length 95 millim.

A single specimen from Msambu, Tanganyika.

Mastacembelus frenatus.

D. XVII 85. A. II 90.

Vent equally distant from the end of the snout and from the caudal; length of head $3\frac{2}{3}$ times in its distance from vent. Mouth extending to below anterior border of eye; no præ-opercular spines. Body with dark brown marblings; a dark streak on each side of the head, passing through the eye; two brown bars across the caudal.

Total length 250 millim.

A single specimen from the north end of Lake Tanganyika.

Mastacembelus tæniatus.

D. XXXIII 85. A. II 85.

Vent nearer caudal fin than end of snout; length of head 3 times in its distance from vent. Mouth extending to below anterior border of eye; no præopercular spines. A brown lateral stripe from the end of the snout to the tail, passing through the eye.

Total length 105 millim.

A single specimen from the north end of Lake Tanganyika.

II.—*Rhynchotal Notes*.—VIII. Heteroptera: *Fam. Coreidæ*.
By W. L. DISTANT.

THESE notes and descriptions refer to the subfamilies Acanthocephalinæ, Homœocerina, Cloresminæ, and Colpurinæ, with a few further references to the family Pentatomidæ. Most of Walker's descriptions in these groups are reviewed, but some two or three still await further consideration. It is also probable that some species Walker described in subsequent locations may, when those groups are reached, be found to belong to the above subfamilies.

ACANTHOCEPHALINÆ.

Genus ACANTHOCEPHALA.

Acanthocephala latipes.

Cimex latipes, Drury, Ins. iii. p. 63, pl. xlv. fig. 3 (1782).

Metapodius sericeicollis, Walk. Cat. Het. iv. p. 49. n. 7 (1871).

Acanthocephala angustipes.

Metapodius angustipes, Westw. in Hope Cat. ii. p. 15 (1842).

Metapodius constrictus, Walk. Cat. Het. iv. p. 47. n. 4 (1871).

Acanthocephala unicolor.

Metapodius unicolor, Westw. in Hope Cat. ii. p. 15 (1842).

Metapodius distinctus, Walk. Cat. Het. iv. p. 50. n. 21 (1871)